QC ABSTRACT
AND
QC REPORT

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QC ABSTRACT

NAME OF WORK: Improvements to Roads and Drains of Amruthahalli Colony of Lakshminarayana Temple Road from Lakshminarayana Temple (Left Side) and in Amruthahalli Surrounding Areas in Ward No.07 Byataranapura.

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Kerb	Core Compressive strength	One Test		1	1
		Corrected Cylinder Compressive strength	One Test		1	1
		Equivalent Cube Compressive strength	One Test		1	1
7	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
8	Precast (200mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
9	PCC M15	Compressive Strength(7days and 28days)	2 set /6-15 cum	12.29	4	4
10	Drain Bottom Slab Concrete M20	Compressive Strength(7days and 28days)	6 set /100-150 cum	111.26	10	10
11	Drain SideWall Concrete M20	Compressive Strength(7days and 28days)	6 set /100-150 cum	129.56	10	10

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Certificate No.: TC-5548

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Format No: CP/TF/01

Lab ID : CP-2020-03-06-19

Date: 13-01-20

Project Name : Improvements to Roads and Drains of Amruthahalli Colony of Lakshminarayana Temple Road from Lakshminarayana Temple (Left Side) and in Amruthahalli Surrounding Areas in Ward No.07 Byataranapura.

Agency :

Customer's Reference : M/s Executive Engineer, K.R.I.D.L

Date of Receipt : BBMP/EE/BTP/WO/137/19-20

Sample Type : 10-01-20

Reference to BIS codes : Birla Super 53grade

IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 (Part 1,2 3,4,5, 6,11):1988
IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6

Date of test : 11-01-20

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.66	–
2	Finess by Air permeablity method (m^2/kg,Min)	291.1	225m^2/kg, Min
3	Density (gm/cc)	3.12	–
4	Standard Consistency (%)	28.0%	Not specified
5	Initial Setting time	165 minutes	Not less than 30 minutes
6	Final Setting time	270 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2mm	Not more than 10 mm

AE (Test)

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R KARTHIKRECHAN
Authorized Signatory
Quality Manager

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Certificate No.: TC-5548

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Format No: CP/TF/01

Lab ID : **CP-2020-03-06-19**

Date: 08-02-20

Project Name : Improvements to Roads and Drains of Amruthahalli Colony of Lakshminarayana Temple Road from Lakshminarayana Temple (Left Side) and in Amruthahalli Surrounding Areas in Ward No.07 Byataranapura.

Agency : M/s Executive Engineer, K.R.I.D.L

Customer's Reference : BBMP/EE/BTP/WO/137/19-20

Date of Receipt : 10-01-20

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 6, Determination of Compressive Strength, Clause 6

Date of test : 11-01-20

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.0N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.0N/mm^2	Not less than 53 N/mm^2

Asst Lly. N.I.D
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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2020-03-06-19**

Project Name : Improvements to Roads and Drains of Amruthahalli Colony of Lakshminarayana Temple Road from Lakshminarayana Temple (Left Side) and in Amruthahalli Surrounding Areas in Ward No.07 Byataranapura.

Date: 13-01-20

Agency : M/s Executive Engineer, K.R.I.D.L

Customer's Reference : BBMP/EE/BTP/WO/137/19-20

Date of Receipt : 11-01-20

Sample Type : 40mm down size coarse aggregate

Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
IS 2386 Part 4: Mechanical Properties

Date of test : 11-01-20

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : **15000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	245	245	1.6	98.4	90-100
3	20 mm	7875	8120	54.1	45.9	30-70
4	10 mm	3899	12019	80.1	19.9	10-35
5	4.75 mm	2588	14607	97.4	2.6	0-5
6	Pan	393	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Format No: CP/TF/01

Lab ID : **CP-2020-03-06-19**

Date: 13-01-20

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.9	
3	Specific Gravity	2.64	–
4	Bulk Density(Loose) (Kg/l)	1.38	–
5	Bulk Density(Compacted) (Kg/l)	1.45	–
6	Water Absorption(%)	0.22	–

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Authorized Signatory
Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2020-03-06-19** **Date: 13-01-20**
Project Name	:	Improvements to Roads and Drains of Amruthahalli Colony of Lakshminarayana Temple Road from Lakshminarayana Temple (Left Side) and in Amruthahalli Surrounding Areas in Ward No.07 Byataranapura.
Agency	:	M/s Executive Engineer, K.R.I.D.L
Customer Reference	:	BBMP/EE/BTP/WO/137/19-20
Date of Receipt	:	10-01-20
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	11-01-20

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	298	298	6.0	94.0	90-100
3	10 mm	2645	2943	58.9	41.1	25-55
4	4.75 mm	1811	4754	95.1	4.9	0-10
5	Pan	246	5000	100	0	_

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2020-03-06-19 Date: 13-01-20

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	8.9	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.4	
3	Specific Gravity	2.62	–
4	Bulk Density(Loose) (Kg/l)	1.42	–
5	Bulk Density(Compacted) (Kg/l)	1.48	–
6	Water Absorption(%)	0.35	–
7	Aggregate crushing Value(%)	24.8	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	25.1	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT OF FINE AGGREGATE

Format No: CP/TF/01

Lab ID : **CP-2020-03-06-19**

Date: 13-01-20

Project Name : Improvements to Roads and Drains of Amruthahalli Colony of Lakshminarayana Temple Road from Lakshminarayana Temple (Left Side) and in Amruthahalli Surrounding Areas in Ward No.07 Byataranapura.

Agency : M/s Executive Engineer, K.R.I.D.L

Customer's Reference : BBMP/EE/BTP/WO/137/19-20

Date of Receipt : 11-01-20

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption

Date of test : 11-01-20

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2020-03-06-19

Date: 13-01-20

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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Certificate No.: TC-5548

TEST RESULTS OF STEEL

Format No: CP/TF/01

ıb ID	:	CP-2020-03-06-19
oject Name	:	Improvements to Roads and Drains of Amruthahalli Colony of Lakshminarayana Temple Road from Lakshminarayana Temple (Left Side) and in Amruthahalli Surrounding Areas in Ward No.07 Byataranapura.
gency	:	M/s Executive Engineer, K.R.I.D.L
ıstomer's Reference	:	BBMP/EE/BTP/WO/137/19-20
ıte of Receipt	:	11-01-20
ımple Type	:	Sunvik
ference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
ıte of test:	:	11-01-20

Date: 13-01-20

L.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

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TEST REPORT OF PRECAST COVER SLAB

Format No: CP/TF/01

: CP-2020-03-06-19

Name : Improvements to Roads and Drains of Amruthahalli Colony of Lakshminarayana Temple Road from Lakshminarayana Temple (Left Side) and in Amruthahalli Surrounding Areas in Ward No.07 Byataranapura.

Date: 18-02-20

: M/s Executive Engineer, K.R.I.D.L

ıer's Reference : BBMP/EE/BTP/WO/137/19-20

'Receipt : 14-02-20

Type /Size : Precast Cover Slab (100mm)

ce to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

'test : 14/02/2020

Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
	(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
Cover Slab-1	75.51	100.48	1.116	4477	80.9	18.1	16.8	21.0
Cover Slab-2	75.49	100.52	1.122	4475	82.3	18.4	17.1	21.4
Cover Slab-3	75.50	100.51	1.118	4476	81.5	18.2	16.9	21.2

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Certificate No.: TC-5548

TEST REPORT OF PRECAST COVER SLAB

Format No: CP/TF/01

ID	:	CP-2020-03-06-19
ct Name	:	Improvements to Roads and Drains of Amruthahalli Colony of Lakshminarayana Temple Road from Lakshminarayana Temple (Left Side) and in Amruthahalli Surrounding Areas in Ward No.07 Byataranapura.
		Date: 18-02-20
cy	:	M/s Executive Engineer, K.R.I.D.L
mer's Reference	:	BBMP/EE/BTP/WO/137/19-20
of Receipt	:	14-02-20
le Type /Size	:	Precast Cover Slab (200mm)
ence to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
of test	:	14/02/2020

Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
	(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
Cover Slab-1	150.51	200.48	2.236	17788	160.9	9.0	8.4	10.5
Cover Slab-2	150.49	200.52	2.232	17784	160.3	9.0	8.4	10.5
Cover Slab-3	150.50	200.51	2.238	17786	160.5	9.0	8.4	10.5

AE(Tech)

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Certificate No.: TC-5548

TEST REPORT OF CEMENT CONCRETE KERB STONE

Format No: CP/TF/01

: CP-2020-03-06-19

Name : Improvements to Roads and Drains of Amruthahalli Colony of Lakshminarayana Temple Road from Lakshminarayana Temple (Left Side) and in Amruthahalli Surrounding Areas in Ward No.07 Byataranapura.

Date: 25-02-20

: M/s Executive Engineer, K.R.I.D.L

ıer's Reference : BBMP/EE/BTP/WO/137/19-20

'Receipt : 21-02-20

: Type /Size : CC Kerb Stone/ 450*150*500mm

ce to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

'test : 21/02/2020

Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
	(mm)	(mm)	Kg	(Sq.mm)	(KN)	(N/mm2)	(N/mm2)	(N/mm2)
A	80.01	150.51	2.164	5027	132.1	26.3	26.3	32.9
B	80.03	150.49	2.193	5029	135.2	26.9	26.9	33.6
C	80.01	150.50	2.115	5027	135.1	26.9	26.9	33.6

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Certificate No.: TC-5548

TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Date: 24/01/2020

ID	:	CP-2020-03-06-19
ject Name	:	Improvements to Roads and Drains of Amruthahalli Colony of Lakshminarayana Temple Road from Lakshminarayana Temple (Left Side) and in Amruthahalli Surrounding Areas in Ward No.07 Byataranapura.
ncy	:	M/s Executive Engineer, K.R.I.D.L
tomer's Reference	:	BBMP/EE/BTP/WO/137/19-20
e of Receipt	:	20-01-20
tomer ID	:	PCC
ple Type /Size	:	150X150X150 mm
ple grade/Age	:	M15 / 7 Days Compressive Strength
erence to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
e of test	:	24/01/2020

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
PCC	M15	17/01/2020	24/01/2020	151.31 X 150.70 X 150.03	22803	8.726	278.7	12.2	12.5
PCC	M15	17/01/2020	24/01/2020	149.59 X 149.26 X 150.61	22328	8.705	274.5	12.3	
PCC	M15	17/01/2020	24/01/2020	151.51 X 149.31 X 151.63	22622	8.160	291.1	12.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Date: 14/02/2020

ID	:	CP-2020-03-06-19
ject Name	:	Improvements to Roads and Drains of Amruthahalli Colony of Lakshminarayana Temple Road from Lakshminarayana Temple (Left Side) and in Amruthahalli Surrounding Areas in Ward No.07 Byataranapura.
ency	:	M/s Executive Engineer, K.R.I.D.L
tomer's Reference	:	BBMP/EE/BTP/WO/137/19-20
e of Receipt	:	20-01-20
tomer ID	:	PCC
ple Type /Size	:	150X150X150 mm
ple grade/Age	:	M15 / 28 Days Compressive Strength
erence to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
e of test	:	14/02/2020

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
PCC	M15	17/01/2020	14/02/2020	150.96 X 149.40 X 149.81	22553	8.012	387.3	17.2	17.4
PCC	M15	17/01/2020	14/02/2020	151.62 X 151.18 X 151.16	22923	8.389	398.7	17.4	
PCC	M15	17/01/2020	14/02/2020	151.14 X 149.28 X 150.32	22562	8.279	400.3	17.7	

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R KARTHIKRECHAN
Authorized Signatory
Quality Manager

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Certificate No.: TC-5548

TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

ID	:	CP-2020-03-06-19
ect Name	:	Improvements to Roads and Drains of Amruthahalli Colony of Lakshminarayana Temple Road from Lakshminarayana Temple (Left Side) and in Amruthahalli Surrounding Areas in Ward No.07 Byataranapura.
ncy	:	M/s Executive Engineer, K.R.I.D.L
tomer's Reference	:	BBMP/EE/BTP/WO/137/19-20
of Receipt	:	20-01-20
tomer ID	:	PCC
ple Type /Size	:	150X150X150 mm
ple grade/Age	:	M15 / 7 Days Compressive Strength
rence to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
of test	:	24/01/2020

Date: 24/01/2020

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
PCC	M15	17/01/2020	24/01/2020	149.06 X 149.09 X 151.36	22223	8.726	269.2	12.1	12.2
PCC	M15	17/01/2020	24/01/2020	149.20 X 151.10 X 150.45	22544	8.705	277.3	12.3	
PCC	M15	17/01/2020	24/01/2020	149.07 X 151.34 X 151.68	22560	8.160	276.5	12.3	

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

ID	:	CP-2020-03-06-19
ect Name	:	Improvements to Roads and Drains of Amruthahalli Colony of Lakshminarayana Temple Road from Lakshminarayana Temple (Left Side) and in Amruthahalli Surrounding Areas in Ward No.07 Byataranapura.
ncy	:	M/s Executive Engineer, K.R.I.D.L
tomer's Reference	:	BBMP/EE/BTP/WO/137/19-20
of Receipt	:	20-01-20
tomer ID	:	PCC
ple Type /Size	:	150X150X150 mm
ple grade/Age	:	M15 / 28 Days Compressive Strength
rence to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
of test	:	14/02/2020

Date: 14/02/2020

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
PCC	M15	17/01/2020	14/02/2020	150.16 X 151.15 X 151.90	22697	8.012	406.8	17.9	17.4
PCC	M15	17/01/2020	14/02/2020	149.85 X 150.17 X 150.25	22503	8.389	385.0	17.1	
PCC	M15	17/01/2020	14/02/2020	150.90 X 150.68 X 151.08	22737	8.279	387.6	17.0	

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Date.....

R KARTHIKRECHAN
Authorized Signatory
Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

	:	CP-2020-03-06-19
ID	:	Improvements to Roads and Drains of Amruthahalli Colony of Lakshminarayana Temple Road from Lakshminarayana Temple (Left Side) and in Amruthahalli Surrounding Areas in Ward No.07 Byataranapura. **Date: 29/01/2020**
ect Name	:	M/s Executive Engineer, K.R.I.D.L
ncy	:	BBMP/EE/BTP/WO/137/19-20
omer's Reference	:	24-01-20
of Receipt	:	Drain Bottom Slab Concrete
omer ID	:	150X150X150 mm
ple Type /Size	:	M20 / 7 Days Compressive Strength
ple grade/Age	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
rence to BIS codes	:	29/01/2020
of test	:	

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Bottom Slab Concrete	M20	22/01/2020	29/01/2020	151.83 X 150.23 X 151.21	22808	8.176	430.4	18.9	18.6
Drain Bottom Slab Concrete	M20	22/01/2020	29/01/2020	149.39 X 150.63 X 149.81	22502	8.524	418.4	18.6	
Drain Bottom Slab Concrete	M20	22/01/2020	29/01/2020	149.15 X 149.87 X 150.10	22353	8.423	406.9	18.2	

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Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2020-03-06-19 **Date: 19/02/2020**

ID : Improvements to Roads and Drains of Amruthahalli Colony of Lakshminarayana Temple Road from Lakshminarayana Temple (Left Side) and in Amruthahalli Surrounding Areas in Ward No.07 Byataranapura.

ect Name : M/s Executive Engineer, K.R.I.D.L

acy : BBMP/EE/BTP/WO/137/19-20

tomer's Reference : 24-01-20

of Receipt : Drain Bottom Slab Concrete

tomer ID : 150X150X150 mm

ple Type /Size : M20 / 28 Days Compressive Strength

ple grade/Age : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

erence to BIS codes : 19/02/2020

of test

	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
	Drain Bottom Slab Concrete	M20	22/01/2020	19/02/2020	151.72 X 149.86 X 149.37	22738	8.887	527.7	23.2	23.0
	Drain Bottom Slab Concrete	M20	22/01/2020	19/02/2020	151.97 X 149.46 X 149.10	22714	8.878	503.9	22.2	
	Drain Bottom Slab Concrete	M20	22/01/2020	19/02/2020	151.50 X 151.97 X 149.67	23024	8.053	546.5	23.7	

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

: CP-2020-03-06-19

Date: 29/01/2020

ame : Improvements to Roads and Drains of Amruthahalli Colony of Lakshminarayana Temple Road from Lakshminarayana Temple (Left Side) and in Amruthahalli Surrounding Areas in Ward No.07 Byataranapura.

: M/s Executive Engineer, K.R.I.D.L

's Reference : BBMP/EE/BTP/WO/137/19-20

eceipt : 24-01-20

ID : Drain Bottom Slab Concrete

ype /Size : 150X150X150 mm

rade/Age : M20 / 7 Days Compressive Strength

e to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

st : 29/01/2020

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
rain Bottom Slab Concrete	M20	22/01/2020	29/01/2020	150.68 X 151.35 X 149.70	22805	8.176	425.9	18.7	18.6
rain Bottom Slab Concrete	M20	22/01/2020	29/01/2020	151.04 X 151.34 X 151.52	22859	8.524	429.5	18.8	
rain Bottom Slab Concrete	M20	22/01/2020	29/01/2020	150.80 X 149.15 X 150.32	22492	8.423	412.8	18.4	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2020-03-06-19 **Date: 19/02/2020**

ID : Improvements to Roads and Drains of Amruthahalli Colony of Lakshminarayana Temple Road from Lakshminarayana Temple (Left Side) and in Amruthahalli Surrounding Areas in Ward No.07 Byataranapura.

ect Name : M/s Executive Engineer, K.R.I.D.L

ncy : BBMP/EE/BTP/WO/137/19-20

tomer's Reference : 24-01-20

of Receipt : Drain Bottom Slab Concrete

tomer ID : 150X150X150 mm

ple Type /Size : M20 / 28 Days Compressive Strength

ple grade/Age : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

rence to BIS codes

of test : 19/02/2020

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
Drain Bottom Slab Concrete	M20	22/01/2020	19/02/2020	150.25 X 151.14 X 150.01	22709	8.887	531.1	23.4	23.2
Drain Bottom Slab Concrete	M20	22/01/2020	19/02/2020	151.02 X 150.35 X 151.89	22705	8.878	515.5	22.7	
Drain Bottom Slab Concrete	M20	22/01/2020	19/02/2020	149.39 X 151.95 X 151.96	22699	8.053	533.5	23.5	

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TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2020-03-06-19 **Date: 29/01/2020**

: Improvements to Roads and Drains of Amruthahalli Colony of Lakshminarayana Temple Road from Lakshminarayana Temple (Left Side) and in Amruthahalli Surrounding Areas in Ward No.07 Byataranapura.

Name : M/s Executive Engineer, K.R.I.D.L

: BBMP/EE/BTP/WO/137/19-20

mer's Reference : 24-01-20

of Receipt : Drain Bottom Slab Concrete

mer ID : 150X150X150 mm

le Type /Size : M20 / 7 Days Compressive Strength

le grade/Age : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

rence to BIS codes : 29/01/2020

of test

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Bottom Slab Concrete	M20	22/01/2020	29/01/2020	151.57 X 149.54 X 151.73	22666	8.176	415.1	18.3	18.2
Drain Bottom Slab Concrete	M20	22/01/2020	29/01/2020	149.76 X 150.65 X 151.60	22562	8.524	414.5	18.4	
Drain Bottom Slab Concrete	M20	22/01/2020	29/01/2020	150.60 X 149.10 X 151.10	22456	8.423	404.9	18.0	

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Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 19/02/2020

	:	CP-2020-03-06-19
ID	:	Improvements to Roads and Drains of Amruthahalli Colony of Lakshminarayana Temple Road from Lakshminarayana Temple (Left Side) and in Amruthahalli Surrounding Areas in Ward No.07 Byataranapura.
ject Name	:	M/s Executive Engineer, K.R.I.D.L
WO	:	BBMP/EE/BTP/WO/137/19-20
tomer's Reference	:	24-01-20
te of Receipt	:	Drain Bottom Slab Concrete
tomer ID	:	150X150X150 mm
mple Type /Size	:	M20 / 28 Days Compressive Strength
mple grade/Age	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
ference to BIS codes		
te of test	:	19/02/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
1	Drain Bottom Slab Concrete	M20	22/01/2020	19/02/2020	151.28 X 149.28 X 151.88	22583	8.887	529.3	23.4	23.2
2	Drain Bottom Slab Concrete	M20	22/01/2020	19/02/2020	150.04 X 149.26 X 149.50	22395	8.878	510.1	22.8	
3	Drain Bottom Slab Concrete	M20	22/01/2020	19/02/2020	150.48 X 151.58 X 151.45	22810	8.053	531.0	23.3	

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 29/01/2020

: CP-2020-03-06-19
: Improvements to Roads and Drains of Amruthahalli Colony of Lakshminarayana Temple Road from Lakshminarayana Temple (Left Side) and in Amruthahalli Surrounding Areas in Ward No.07 Byataranapura.
Name : M/s Executive Engineer, K.R.I.D.L
: BBMP/EE/BTP/WO/137/19-20
's Reference : 24-01-20
Receipt : Drain Bottom Slab Concrete
ID : 150X150X150 mm
Type /Size : M20 / 7 Days Compressive Strength
grade/Age : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
nce to BIS codes
test : 29/01/2020

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Bottom Slab Concrete	M20	22/01/2020	29/01/2020	149.12 X 151.18 X 151.18	22544	8.176	426.0	18.9	18.7
Drain Bottom Slab Concrete	M20	22/01/2020	29/01/2020	149.99 X 149.21 X 149.49	22379	8.524	407.1	18.2	
Drain Bottom Slab Concrete	M20	22/01/2020	29/01/2020	150.28 X 151.94 X 151.50	22834	8.423	433.5	19.0	

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 19/02/2020

: CP-2020-03-06-19

: Improvements to Roads and Drains of Amruthahalli Colony of Lakshminarayana Temple Road from Lakshminarayana Temple (Left Side) and in Amruthahalli Surrounding Areas in Ward No.07 Byataranapura.

Name : M/s Executive Engineer, K.R.I.D.L

: BBMP/EE/BTP/WO/137/19-20

mer's Reference : 24-01-20

f Receipt : Drain Bottom Slab Concrete

mer ID : 150X150X150 mm

e Type /Size : M20 / 28 Days Compressive Strength

e grade/Age : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

nce to BIS codes : 19/02/2020

f test

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
Drain Bottom Slab Concrete	M20	22/01/2020	19/02/2020	150.52 X 150.26 X 151.74	22617	8.887	536.8	23.7	23.5
Drain Bottom Slab Concrete	M20	22/01/2020	19/02/2020	149.11 X 149.38 X 149.67	22274	8.878	509.8	22.9	
Drain Bottom Slab Concrete	M20	22/01/2020	19/02/2020	149.93 X 151.62 X 151.07	22733	8.053	543.7	23.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2020-03-06-19

Date: 29/01/2020

: Improvements to Roads and Drains of Amruthahalli Colony of Lakshminarayana Temple Road from Lakshminarayana Temple (Left Side) and in Amruthahalli Surrounding Areas in Ward No.07 Byataranapura.

Name : M/s Executive Engineer, K.R.I.D.L

er's Reference : BBMP/EE/BTP/WO/137/19-20

Receipt : 24-01-20

er ID : Drain Bottom Slab Concrete

Type /Size : 150X150X150 mm

grade/Age : M20 / 7 Days Compressive Strength

ce to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

test : 29/01/2020

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Bottom Slab Concrete	M20	22/01/2020	29/01/2020	150.06 X 149.02 X 149.51	22362	8.176	422.0	18.9	18.7
Drain Bottom Slab Concrete	M20	22/01/2020	29/01/2020	151.17 X 151.97 X 149.28	22973	8.524	422.6	18.4	
Drain Bottom Slab Concrete	M20	22/01/2020	29/01/2020	151.00 X 149.84 X 150.06	22627	8.423	424.5	18.8	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2020-03-06-19 **Date: 19/02/2020**

: Improvements to Roads and Drains of Amruthahalli Colony of Lakshminarayana Temple Road from Lakshminarayana Temple (Left Side) and in Amruthahalli Surrounding Areas in Ward No.07 Byataranapura.

Name : M/s Executive Engineer, K.R.I.D.L

er's Reference : BBMP/EE/BTP/WO/137/19-20

Receipt : 24-01-20

er ID : Drain Bottom Slab Concrete

Type /Size : 150X150X150 mm

grade/Age : M20 / 28 Days Compressive Strength

ce to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

test : 19/02/2020

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Bottom Slab Concrete	M20	22/01/2020	19/02/2020	151.56 X 151.19 X 150.70	22915	8.887	535.2	23.4	23.0
Drain Bottom Slab Concrete	M20	22/01/2020	19/02/2020	150.98 X 151.46 X 149.21	22868	8.878	515.3	22.5	
Drain Bottom Slab Concrete	M20	22/01/2020	19/02/2020	151.12 X 149.54 X 151.35	22599	8.053	520.1	23.0	

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TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2020-03-06-19 **Date: 30/01/2020**

: Improvements to Roads and Drains of Amruthahalli Colony of Lakshminarayana Temple Road from Lakshminarayana Temple (Left Side) and in Amruthahalli Surrounding Areas in Ward No.07 Byataranapura.

Name : M/s Executive Engineer, K.R.I.D.L

er's Reference : BBMP/EE/BTP/WO/137/19-20

Receipt : 25-01-20

er ID : Drain SideWall Concrete

Type /Size : 150X150X150 mm

grade/Age : M20 / 7 Days Compressive Strength

nce to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

test : 30/01/2020

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
Drain SideWall Concrete	M20	23/01/2020	30/01/2020	149.32 X 151.48 X 150.27	22619	8.176	425.5	18.8	18.8
Drain SideWall Concrete	M20	23/01/2020	30/01/2020	151.64 X 151.79 X 151.99	23017	8.524	436.9	19.0	
Drain SideWall Concrete	M20	23/01/2020	30/01/2020	149.55 X 150.91 X 149.19	22569	8.423	422.0	18.7	

AE(M)

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R KARTHIKRECHAN
Authorized Signatory
Quality Manager

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****End of Report****

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Yelahanka Zone, B.B.M.P.
Bangalore.

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

	:	CP-2020-03-06-19
D	:	Date: 20/02/2020
ct Name	:	Improvements to Roads and Drains of Amruthahalli Colony of Lakshminarayana Temple Road from Lakshminarayana Temple (Left Side) and in Amruthahalli Surrounding Areas in Ward No.07 Byataranapura.
cy	:	M/s Executive Engineer, K.R.I.D.L
mer's Reference	:	BBMP/EE/BTP/WO/137/19-20
of Receipt	:	25-01-20
mer ID	:	Drain SideWall Concrete
ple Type /Size	:	150X150X150 mm
ple grade/Age	:	M20 / 28 Days Compressive Strength
rence to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
of test	:	20/02/2020

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
Drain SideWall Concrete	M20	23/01/2020	20/02/2020	151.32 X 149.90 X 149.53	22683	8.887	540.1	23.8	23.0
Drain SideWall Concrete	M20	23/01/2020	20/02/2020	151.83 X 151.42 X 150.52	22991	8.878	506.8	22.0	
Drain SideWall Concrete	M20	23/01/2020	20/02/2020	151.17 X 149.76 X 151.47	22638	8.053	527.2	23.3	

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 30/01/2020

	:	CP-2020-03-06-19
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g Name	:	M/s Executive Engineer, K.R.I.D.L
ner's Reference	:	BBMP/EE/BTP/WO/137/19-20
f Receipt	:	25-01-20
ner ID	:	Drain SideWall Concrete
Type /Size	:	150X150X150 mm
grade/Age	:	M20 / 7 Days Compressive Strength
nce to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
f test	:	30/01/2020

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain SideWall Concrete	M20	23/01/2020	30/01/2020	150.31 X 149.78 X 151.04	22513	8.176	414.1	18.4	18.3
Drain SideWall Concrete	M20	23/01/2020	30/01/2020	150.48 X 149.61 X 149.46	22513	8.524	411.7	18.3	
Drain SideWall Concrete	M20	23/01/2020	30/01/2020	151.63 X 149.70 X 151.20	22699	8.423	414.6	18.3	

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 20/02/2020

CP-2020-03-06-19

: Improvements to Roads and Drains of Amruthahalli Colony of Lakshminarayana Temple Road from Lakshminarayana Temple (Left Side) and in Amruthahalli Surrounding Areas in Ward No.07 Byataranapura.

: M/s Executive Engineer, K.R.I.D.L

: BBMP/EE/BTP/WO/137/19-20

: 25-01-20

: Drain SideWall Concrete

: 150X150X150 mm

: M20 / 28 Days Compressive Strength

: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 20/02/2020

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
Drain SideWall Concrete	M20	23/01/2020	20/02/2020	149.98 X 150.52 X 149.79	22575	8.887	521.3	23.1	23.2
Drain SideWall Concrete	M20	23/01/2020	20/02/2020	149.80 X 149.99 X 150.61	22469	8.878	507.9	22.6	
Drain SideWall Concrete	M20	23/01/2020	20/02/2020	151.55 X 151.64 X 151.81	22981	8.053	550.2	23.9	

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Quality Manager

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: Improvements to Roads and Drains of Amruthahalli Colony of Lakshminarayana Temple Road from Lakshminarayana Temple (Left Side) and in Amruthahalli Surrounding Areas in Ward No.07 Byataranapura.

Name : M/s Executive Engineer, K.R.I.D.L

: BBMP/EE/BTP/WO/137/19-20

er's Reference : 25-01-20

Receipt : Drain SideWall Concrete

er ID : 150X150X150 mm

Type /Size : M20 / 7 Days Compressive Strength

grade/Age : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

nce to BIS codes : 30/01/2020

test

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain SideWall Concrete	M20	23/01/2020	30/01/2020	149.15 X 151.69 X 149.16	22624	8.176	420.6	18.6	18.6
Drain SideWall Concrete	M20	23/01/2020	30/01/2020	151.69 X 151.35 X 149.77	22957	8.524	428.5	18.7	
Drain SideWall Concrete	M20	23/01/2020	30/01/2020	150.10 X 149.64 X 151.93	22461	8.423	418.7	18.6	

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Date: 20/02/2020

: CP-2020-03-06-19

: Improvements to Roads and Drains of Amruthahalli Colony of Lakshminarayana Temple Road from Lakshminarayana Temple (Left Side) and in Amruthahalli Surrounding Areas in Ward No.07 Byataranapura.

: M/s Executive Engineer, K.R.I.D.L

: BBMP/EE/BTP/WO/137/19-20

: 25-01-20

: Drain SideWall Concrete

: 150X150X150 mm

: M20 / 28 Days Compressive Strength

: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 20/02/2020

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
Drain SideWall Concrete	M20	23/01/2020	20/02/2020	150.33 X 151.89 X 150.46	22833	8.887	544.3	23.8	23.3
Drain SideWall Concrete	M20	23/01/2020	20/02/2020	151.91 X 149.98 X 151.41	22784	8.878	518.7	22.8	
Drain SideWall Concrete	M20	23/01/2020	20/02/2020	150.19 X 151.22 X 151.39	22713	8.053	532.3	23.4	

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Name : M/s Executive Engineer, K.R.I.D.L

's Reference : BBMP/EE/BTP/WO/137/19-20

Receipt : 25-01-20

er ID : Drain SideWall Concrete

Type /Size : 150X150X150 mm

grade/Age : M20 / 7 Days Compressive Strength

ce to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

f test : 30/01/2020

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain SideWall Concrete	M20	23/01/2020	30/01/2020	150.91 X 149.09 X 151.50	22499	8.176	417.9	18.6	18.7
Drain SideWall Concrete	M20	23/01/2020	30/01/2020	149.09 X 150.54 X 149.82	22444	8.524	414.3	18.5	
Drain SideWall Concrete	M20	23/01/2020	30/01/2020	149.60 X 149.54 X 149.45	22371	8.423	423.8	18.9	

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Name : M/s Executive Engineer, K.R.I.D.L
's Reference : BBMP/EE/BTP/WO/137/19-20
Receipt : 25-01-20
er ID : Drain SideWall Concrete
Type /Size : 150X150X150 mm
grade/Age : M20 / 28 Days Compressive Strength
nce to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
f test : 20/02/2020

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
Drain SideWall Concrete	M20	23/01/2020	20/02/2020	149.15 X 150.24 X 149.45	22409	8.887	523.6	23.4	23.0
Drain SideWall Concrete	M20	23/01/2020	20/02/2020	151.96 X 150.11 X 150.60	22811	8.878	506.1	22.2	
Drain SideWall Concrete	M20	23/01/2020	20/02/2020	150.39 X 151.53 X 151.13	22789	8.053	536.7	23.6	

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Name : M/s Executive Engineer, K.R.I.D.L

: BBMP/EE/BTP/WO/137/19-20

er's Reference : 25-01-20

Receipt : Drain SideWall Concrete

ner ID : 150X150X150 mm

Type /Size : M20 / 7 Days Compressive Strength

grade/Age : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

nce to BIS codes

f test : 30/01/2020

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain SideWall Concrete	M20	23/01/2020	30/01/2020	151.99 X 150.37 X 149.34	22855	8.176	434.1	19.0	18.8
Drain SideWall Concrete	M20	23/01/2020	30/01/2020	151.33 X 150.71 X 150.92	22808	8.524	420.6	18.4	
Drain SideWall Concrete	M20	23/01/2020	30/01/2020	150.42 X 150.54 X 151.84	22644	8.423	429.0	18.9	

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Date: 20/02/2020

ID	:	CP-2020-03-06-19
ject Name	:	Improvements to Roads and Drains of Amruthahalli Colony of Lakshminarayana Temple Road from Lakshminarayana Temple (Left Side) and in Amruthahalli Surrounding Areas in Ward No.07 Byataranapura.
ncy	:	M/s Executive Engineer, K.R.I.D.L
tomer's Reference	:	BBMP/EE/BTP/WO/137/19-20
e of Receipt	:	25-01-20
tomer ID	:	Drain SideWall Concrete
nple Type /Size	:	150X150X150 mm
nple grade/Age	:	M20 / 28 Days Compressive Strength
ference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
te of test	:	20/02/2020

o.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
1	Drain SideWall Concrete	M20	23/01/2020	20/02/2020	150.84 X 149.09 X 150.89	22489	8.887	534.2	23.8	23.3
2	Drain SideWall Concrete	M20	23/01/2020	20/02/2020	151.34 X 149.90 X 150.48	22686	8.878	501.3	22.1	
3	Drain SideWall Concrete	M20	23/01/2020	20/02/2020	152.00 X 151.50 X 151.93	23028	8.053	551.8	24.0	

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